Industrial Monitor Redefine

DM-F Series

■ Flexible Video Input Selection

DM-F provides comprehensive video input from conventional analog VGA to broad bandwidth digital HDMI and DisplayPort to fulfill different needs.

Benefits of DisplayPort

- 17.28 Gbit/s broad bandwidth for faster transmission
- 15M for 1080p 60fps long transmission distance
- Blu-ray disc content support
- Lockable cables against vibration
- Downward convertible for HDMi and DVI

Benefits of HDMI

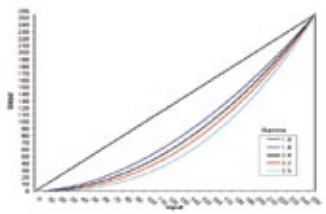
- Single-link bandwidth to 340 MHz (10.2 Gbit/s)
- Blu-ray disc content support
- Downward convertible for DVI

■ 9V~36V Wide Range DC Input

Power requirement varies from applications. DM-F series provides 9V~36V DC input which simplifies system integration through adapter or DC source.

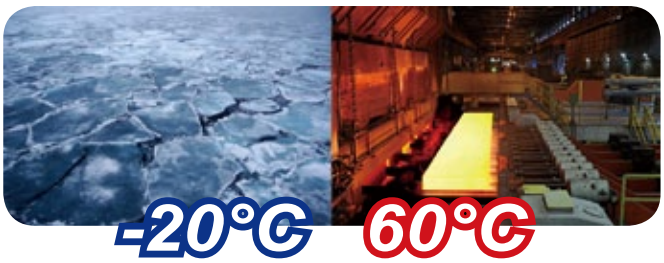
■ Gamma Correction - Pursuit of Perfection

Gamma correction enables each panel model to follow the specified look-up-table (LUT) in gamma curve doing color adjustment through software encode. In this way, various monitors can display in an unified color by following Gamma 2.2 standard for PC products, ensuring color consistency for multiple monitor applications.



■ Wide Operating Temperature

Design for outdoor applications, DM-F series support wide operating temperature from -20oC to 60oC for 12" to 17" models. 22" and 24" are by project request.



■ OSD Keypad on Back

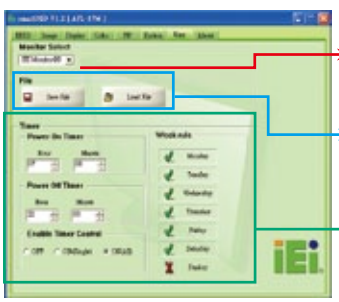
In order to keep the front panel simple and clean, the membrane keypad of the DM-F series is located on the rear panel to prevent the possibility to adjust the setting accidentally.

■ Cable Cover for Neat Cabling

The DM-F series provides an optional cable cover for easy and neat cabling.

■ SmartOSD Remote Monitor Adjustment

Asides from physical membrane keypad, IEI also provides smartOSD software application to help users to adjust monitor color settings and power management setting from a PC control terminal.



smart OSD

Monitor Selection
Selects the monitor unit for which the system parameters will be adjusted

Setting Saving
Saves the referred settings of all the OSD functions as .dat files and load the settings

Power Management
Set up power cycle schedule to save power

DM-F Series

12.1”~24” DM-F IP65 Industrial Monitor

New

Features

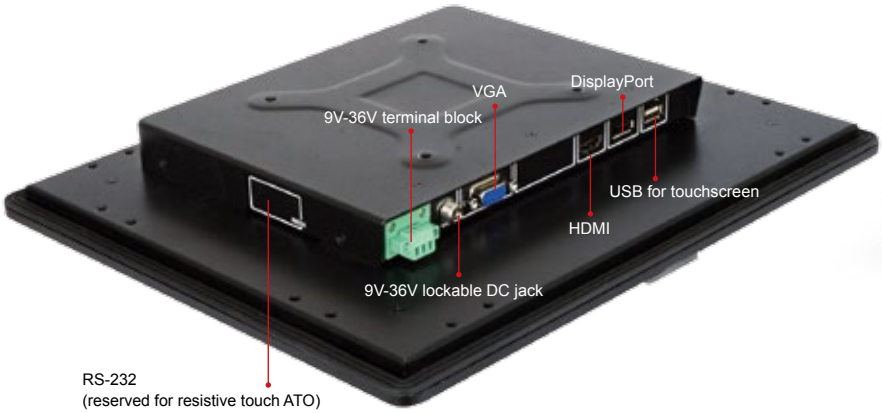
- Robust IP65 aluminum front bezel
- Aesthetic ultra-thin bezel for seamless panel mount installation
- Wide range 9V~36V DC input
- HDMI/DisplayPort/VGA flexible video input solution
- Projected capacitive multi-touch/ resistive single touch options
- Wide temperature support

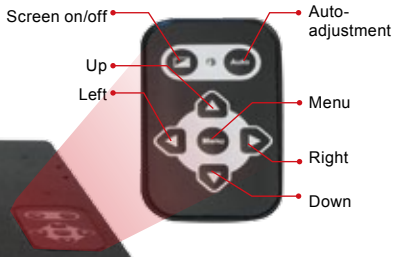
FHD | IP65 | 9~36V DC Input | High Brightness | Multi-touch | -20°C~60°C Wide Temp | MOUNT

Specifications

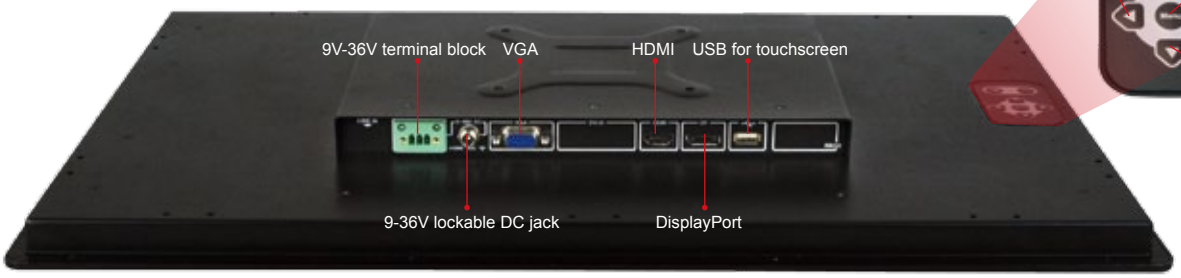
Model		DM-F12A	DM-F15A	DM-F17A	DM-F22A	DM-F24A
LCD	LCD Display	12" (4:3)	15" (4:3)	17" (5:4)	21.5" (16:9)	24" (16:9)
	Max. Resolution	1024(W) x 768(H)	1024(W) x 768(H)	1280(W) x 1024(H)	1920(W) x 1080(H)	1920(W) x 1080(H)
	Brightness (cd/m²)	600	400	350	250	250
	Contrast Ratio	700 : 1	700 : 1	1000 : 1	1000 : 1	3000 : 1
	LCD Color	16.2M	16.2M	16.7M	16.7M	16.7M
	Pixel Pitch (mm)	0.24 x 0.24	0.29 x 0.29	0.26 x 0.26	0.25 x 0.25	0.28 x 0.28
	Viewing Angle (H-V)	160° /140°	160° / 140°	170° / 160°	170° / 160°	178°/178°
	Backlight MTBF (Hrs)	50000	50000	50000	30000	30000
Touchscreen & Controller		Resistive type 5-wire single touch window/ Penmount 6000 Projected capacitive 2-point touch window/ EETI EXC7200			Projected capacitive 2-point touch window/ EETI EXC7200	Projected capacitive 10-point touch window/ EETI EXC3000
I/O Ports		1 x VGA (DB-15) 1 x HDMI 1 x DisplayPort 1.1 1 x USB 2.0 (touch) 1 x RS-232 (touch) [reserved for resistive touch ATO] 1 x Lockable 9V-36V DC jack 1 x 9V-36V terminal block				
OSD	OSD Button	7-key membrane OSD keypad				
	Smart OSD Software	Smart OSD Software				
Physical	Construction Material	Aluminum front cover and sheet metal rear cover				
	Mounting	Panel Mount/ Rack Mount/ 100*100 VESA Mount			Panel Mount/ 100*100 VESA Mount	
	Enclosure Color	Black C				
	Dimensions (mm)	262.2 x 322.2 x 40.5	303 x 378.5 x 43.2	341.4 x 408.4 x 49.3	350.4 x 550.4 x 49.1	382 x 600 x 49.4
	Cutout Dimensions (mm)	234.8 x 303.8	284.6 x 68.1	323 x 398	340 x 532	358.6 x 578.6
	Weight (Net/Gross)	2.7 / 4.9	3.5 / 5.5	4.4 / 7.1	6.3 / 9.6	7.6 / 10.9
Environment	Operating Temperature (with air flow)	-20°C ~ 60°C			-10°C ~ 50°C	
	Storage Temperature	-20°C ~ 70°C			-20°C ~ 60°C	
	Humidity	10% to 95% (non-condensing)				
	IP Level	IP 65 compliant front panel				
	Safety and EMC	CE & FCC certified				
Power	Power Adapter	63040-010060-040-RS 12V 60W with lock (ATO by option)				
	Power Input	9V~36V DC				

DM-F12A/15A/17A





DM-F22A/24A



Options

Item	DM-F12A	DM-F15A	DM-F17A	DM-F22A	DM-F24A
Power Adapter	63040-010060-040-RS (Meet PSE)				
Arm	ARM-11-RS	ARM-31-RS	ARM-31-RS	ARM-31-RS	ARM-31-RS
Stand	STAND-A12-RS	STAND-A19-RS STAND-B19-RS	STAND-C19-RS STAND-A21-R10	STAND-C19-RS STAND-A21-R10	STAND-C19-RS STAND-A21-R10
Wall Mount Kit	WK-190MS-R10				
Panel Mount Kit	FPK-01-R10			FPK-02-R10	FPK-03-R10
Rack Mount Kit	FRK12-R10	FRK15-R10	FRK17-R10	N/A	
Cable Cover	N/A	DM-F-CC01-R10		DM-F-CC02-R10	
RS-232 Touch Cable Kit	DM-F-COMKIT-R10			N/A	
HDMI Cable	32012-000800-100-RS				
DisplayPort Cable	32004-000200-100-RS				

Packing List

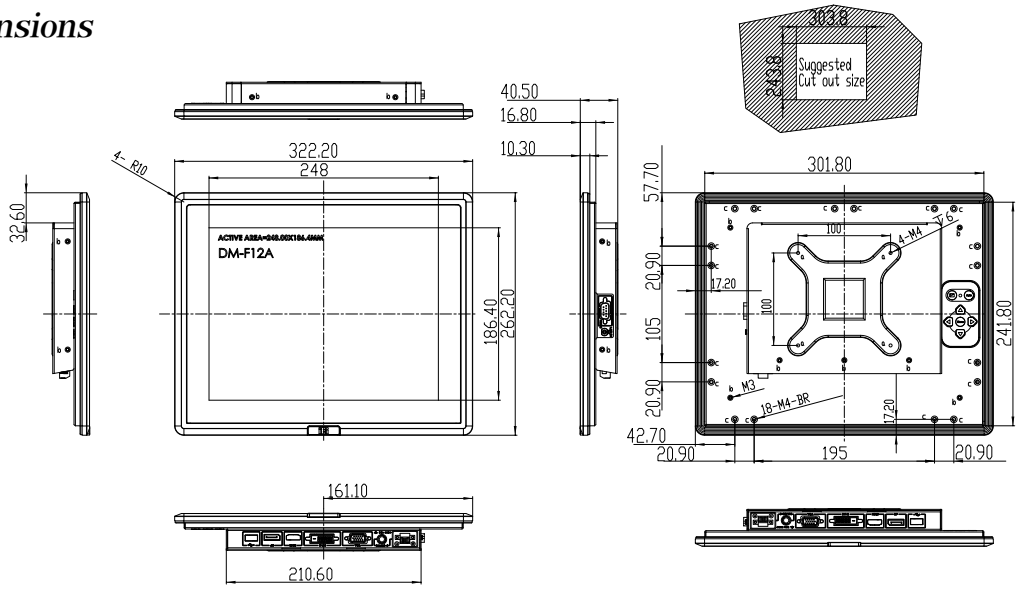
Item	P/N	Q'ty	Description
Utility CD		1	Drivers and user manual
Touch Pen	43125-0002C0-00-RS	1	Resistive touch only
USB Cable	32001-006100-100-RS	1	For touch screen
VGA Cable	32000-036200-RS	1	

Ordering Information

PN	Description
DM-F12A/R-R10	12" 600 cd/m² XGA LCD monitor, Aluminum front panel, Black color, W/ USB resistive touch screen, 9 ~36V DC input, R10
DM-F12A/PC-R10	12" 600 cd/m² XGA LCD monitor, Aluminum front panel, Black color, W/ USB projected capacitive touch screen, 9 ~36V DC input, R10
DM-F15A/R-R10	15" 400 cd/m² XGA LCD monitor, Aluminum front panel, Black color, W/ USB resistive touch screen, 9 ~36V DC input, R10
DM-F15A/PC-R10	15" 400 cd/m² XGA LCD monitor, Aluminum front panel, Black color, W/ USB projected capacitive touch screen, 9 ~36V DC input, R10
DM-F17A/R-R10	17" 350 cd/m² SXGA LCD monitor, Aluminum front panel, Black color, W/ USB resistive touch screen, 9 ~36V DC input, R10
DM-F17A/PC-R10	17" 350 cd/m² SXGA LCD monitor, Aluminum front panel, Black color, W/ USB projected capacitive touch screen, 9 ~36V DC input, R10
DM-F22A/PC-R10	21.5" 250 cd/m² FHD LCD monitor, Aluminum front panel, Black color, W/ USB projected capacitive touch screen, 9 ~36V DC input, R10
DM-F24A/PC-R10	24" 250 cd/m² FHD LCD monitor, Aluminum front panel, Black color, W/ USB projected capacitive touch screen, 9 ~36V DC input, R10

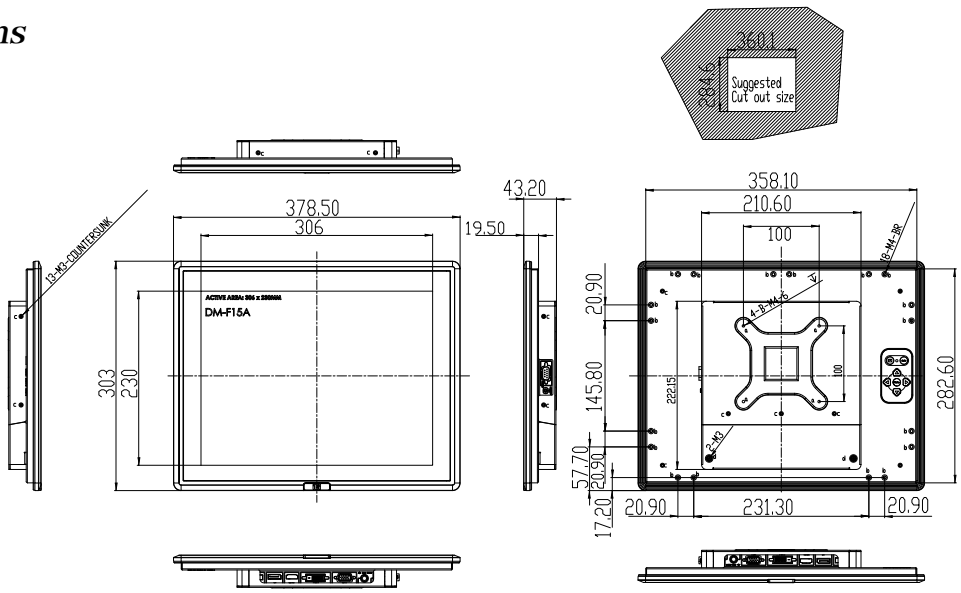
DM-F12A Dimensions

(Unit: mm)



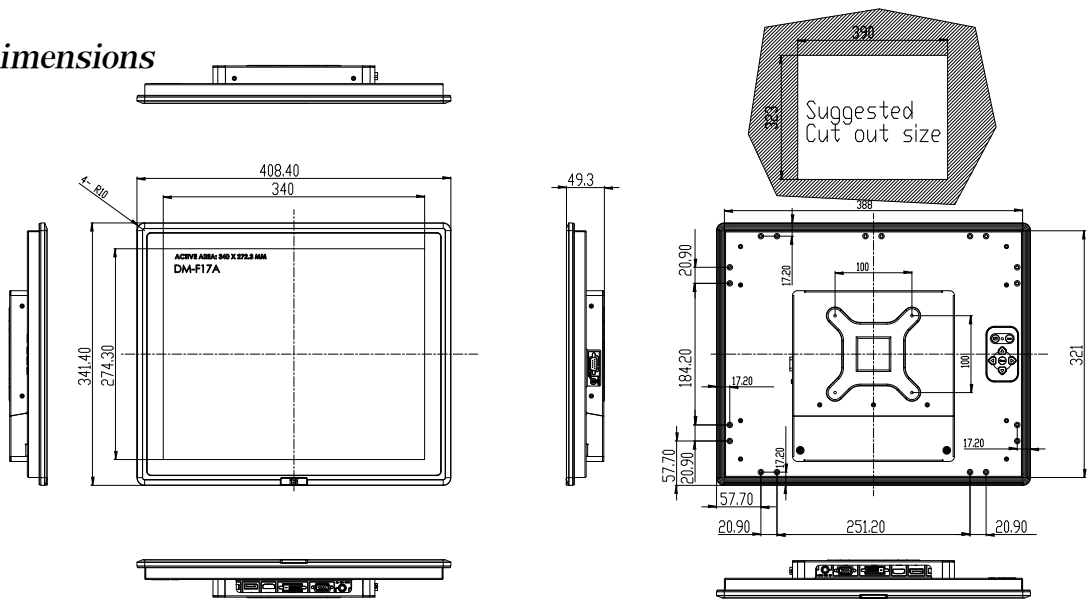
DM-F15A Dimensions

(Unit: mm)



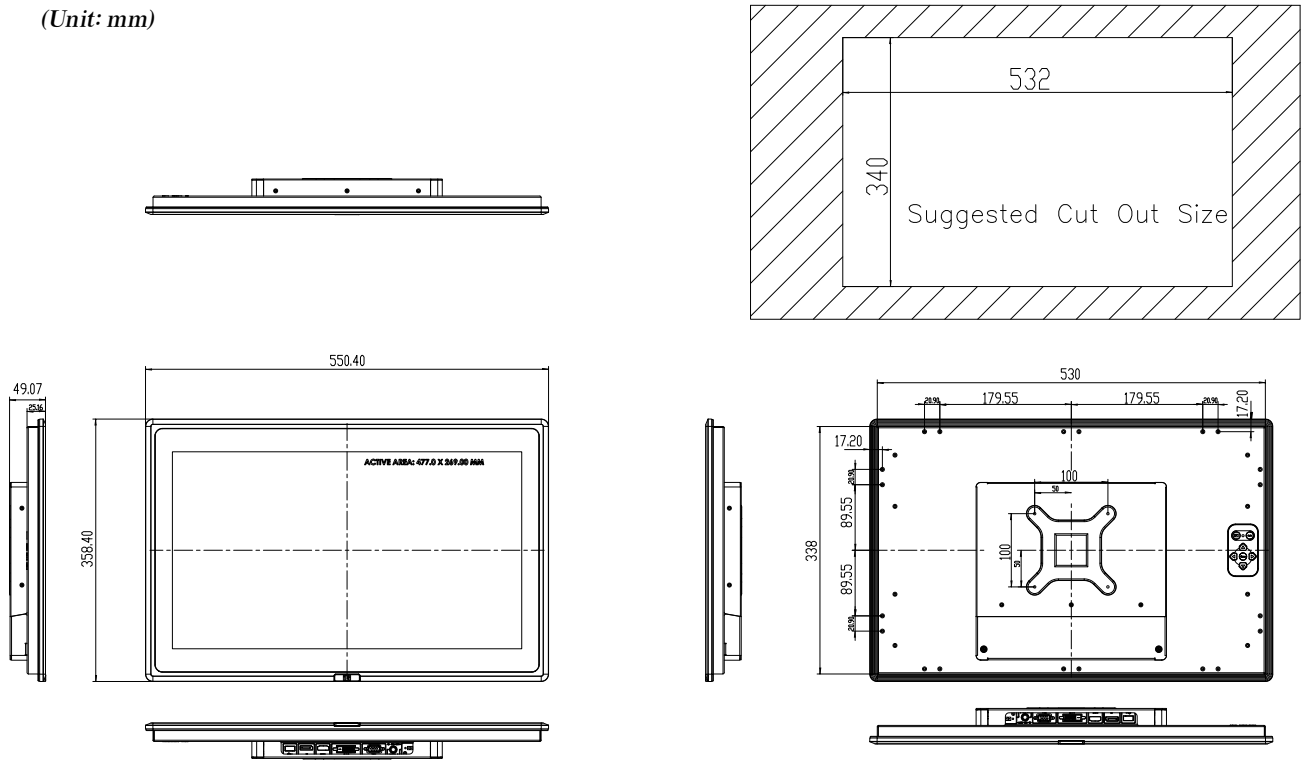
DM-F17A Dimensions

(Unit: mm)



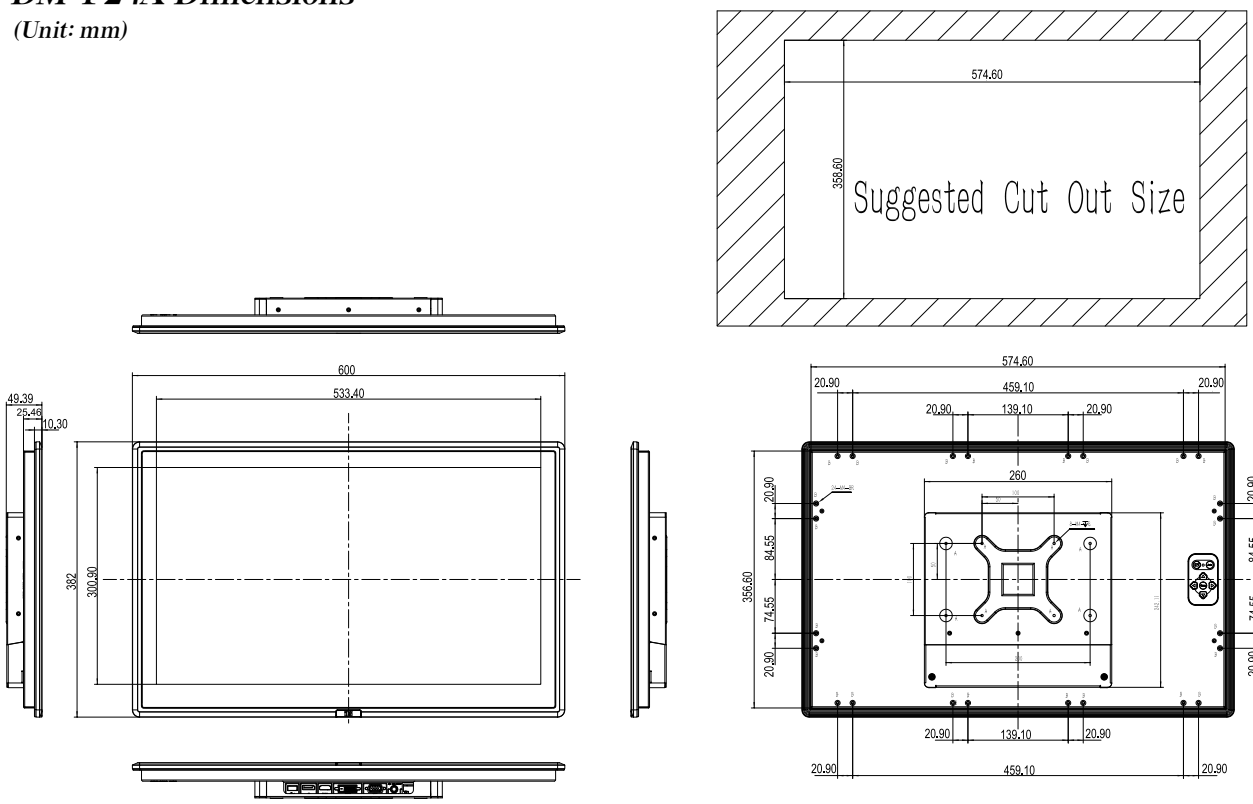
DM-F22A Dimensions

(Unit: mm)



DM-F24A Dimensions

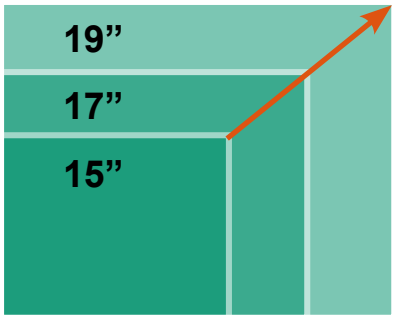
(Unit: mm)



Heavy Industrial Display Monitor Main Features

Feature 1 Upgrade 15"~19" Display Monitor with LED Backlight Technology

- Inverter-free design increases system reliability and lowers total product cost as well as maintenance cost
- Better for the environment, mercury and lead free
- LCD provides 50000hrs service life
- 15%~30% less power consumption compared to CCFL



Feature 2 Increase Power Adapter Efficiency (Meet Energy Related Products ErP)

The display monitor R20 series comes with a power adapter which complies with the ErP 2009/125/EC directive, meaning the power consumption of the whole system in either standby or off mode is under 1W.

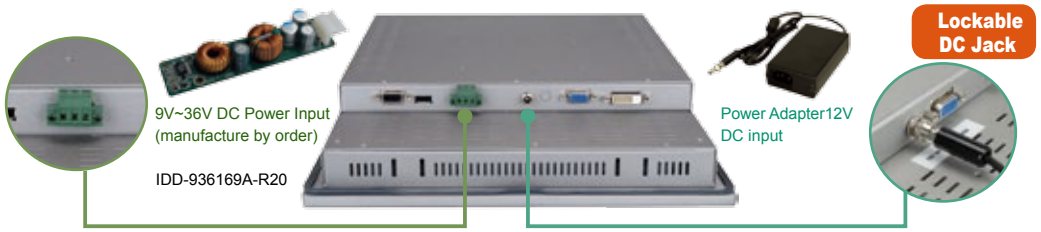
Feature 3 Dual Touch Screen Control Interface: RS-232 & USB

Display monitor series provides both RS-232 and USB ports for touch screen connection.

- Lockable RS-232 connector ensures secure attachment
- Standard Type A USB 2.0 interface with 480 Mbit/s maximum transfer rate provides faster data transmission than a traditional RS-232 interface (Except 8.4" DM series)

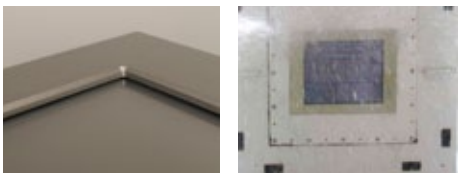
Feature 4 M Model Supports 9V~36V DC Power Input for Mobile Application

Display Monitor series M models support wide 9V~36V DC power input. Factory and mobile environments, such as vehicles, usually use 12V or 24V DC power source. The wide 9V~36V power input range by terminal block and 12V power input by power jack can be adapted to a wide variety of appliance requirements. (manufacture by order)



Feature 5 IP 65 Waterproof Aluminum Front Panel

IP 65 is the highest dust, water and oil proof standard in ground usage, It absolutely prevents any micro-particles from getting into the system front panel and allows the system to function in harsh environments.

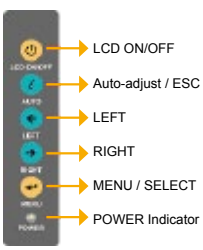


Feature 6 OSD Function Keypad on the Front Panel

IEI's display monitors have OSD function keys on the front panel. Users can easily configure monitor functions using the waterproof OSD function keys.

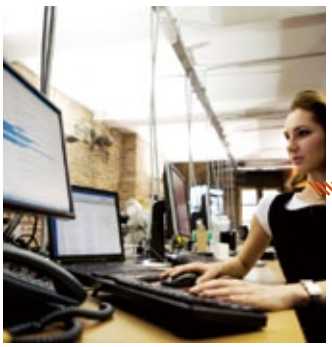
• OSD lock secures your settings
Press left and right buttons eight seconds, the OSD functions will be locked. Press eight seconds again, the OSD functions will be unlocked.

With OSD Disable Function



IEI SmartOSD Software OSD for IEI LCD Monitors

IEI SmartOSD is a proprietary On-Screen-Display (OSD) software solution that enables easy remote monitor setting adjustments in Windows environment. IEI SmartOSD delivers excellent performance and provides more flexibility than typical OSD hardware solutions when adjusting a monitor. SmartOSD also allows monitor settings such as brightness, contrast, screen position, size, and color gain to be read and changed over normal video cable (VGA/DVI).



Local Control System

Directly controls IEI display device through standard video cables !

VESA DDC / CI Protocol

DVI~10m

VGA~30m

IEI Display Monitor Only!

smart OSD

SmartOSD Features

- 100% compatible with Windows environment -Windows 95/NT 4.0/98/2000/2003/XP/Vista
- Normal video cable (VGA/DVI) connection only
- Overcome operation obstacles

Distance, location and multiple display units no longer present obstacles when controlling the monitors with the SmartOSD.

Multiple Control Displays

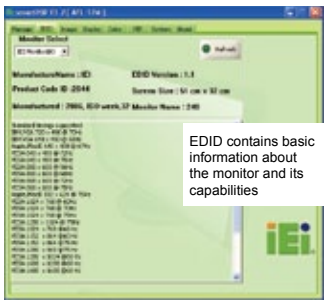
Untouchable Location

100% Compatible with VESA DDC / CI Protocol

IEI LCD monitors are implemented with the VESA DDC/CI protocol and standard VESA Monitor Control Command Set (MCCS). Compliance software for designing displays compatible with VESA's DDC/CI and MCCS standards are easily modified and applied in other application programs.

■ Various Remote Management Functions

1.EDID

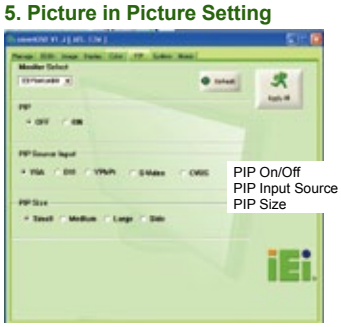


2.Image Setting

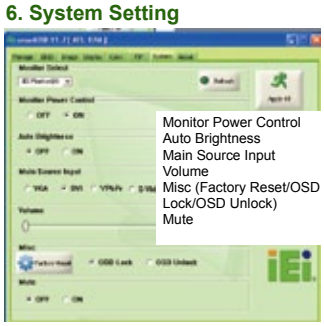
3.Display Setting

4.Color Setting

5. Picture in Picture Setting



6. System Setting



7.Monitor Power Management and File Saving

Monitor Select
Selects the monitor unit for which the system parameters will be adjusted

Settings Saving
Saves the referred settings of all the OSD functions as .dat files and load the settings

Power Management
Setts the monitor power on/off by time and week

DM Series

6.5”~19” IP 65 Industrial Monitors, Robust, Shock Resistant with OSD Function

Features

1. Aluminum front panel compliant with IP 65 standard for tough working environment
2. Supports both USB and RS-232 touch interface
3. Robust chassis and retention kit structure for shocking and vibration requirement
4. Over 300cd/m² high brightness and 50000hrs MTFB long lifetime panel
5. Analog VGA and DVI-D interface supports most of general system boards
6. M models support 9~36V DC power input for mobile application

smart OSD

Specifications

Model	DM-65GHS	DM-84GHS	DM-104GHS	DM-121GXS	DM-150GS	DM-170GS	DM-190GS
LCD Size	6.5”	8.4”	10.4”	12.1”	15”	17”	19”
Input Interface	Analog VGA	Analog VGA	Analog VGA	Analog VGA + DVI-D	Analog VGA + DVI-D	Analog VGA + DVI-D	Analog VGA + DVI-D
Max Resolution	640 x 480	800 x 600	800 x 600	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024
Brightness (cd/m²)	800 Sunlight Readable	450	400	500	400	350	350
Contrast Ratio	600 : 1	600 : 1	700 : 1	700 : 1	700 : 1	800 : 1	1000 : 1
Display Color	262K	262K	262K	262K	16.2M	16.7M	16.7M
Pixel Pitch (mm)	0.207	0.213	0.264	0.3075	0.297	0.264	0.294
Viewing Angle (H/V)	160° /140°	160° /140°	160° /140°	160° / 160°	120° / 140°	160° / 160°	170° / 160°
Touch Screen	Resistive type 4-wire / RS-232 & USB interface (touch controller IC is on board)		Resistive type 5-wire / RS-232 & USB interface (touch controller IC is on board)				
Front Frame	Aluminum						
Chassis	Heavy-duty						
Input Voltage	12VDC	12VDC or 9-36VDC					
OSD Function	OSD Keypad						
Smart OSD	Yes						
Mounting	Wall/Arm/Din Panel/Rack	Wall / Panel / Rack / Arm / Stand / VESA 100mm x 100mm					
Color	Silver						
Dimensions (W x H x D mm)	183 x 143 x 41	244 x 178 x 49	312 x 242 x 53	340 x 260 x 58	410 x 309 x 64.4	452 x 356 x 65.2	482 x 399 x 73
Operating Temperature	-10°C~50°C				0°C~50°C		
Front Panel Protection	IP 65						
Net Weight	1 kg	1.8 kgs	3 kgs	3.8 kgs	6 kgs	8.6 kgs	10 kgs
Power Adapter	36W, 63000-FSP036RAB610-RS (Meet PSE)				60W, 63040-010060-040-RS (Meet PSE)		

Mounting Kits

	DM-65GS	DM-84GS	DM-104GS	DM-121GS	DM-150GS	DM-170GS	DM-190GS
Panel Mount Kit	PK-65M	PK-84M	PK-104M	PK-170M			PK-190M
Wall Mount Kit	WK-065MS-R10	WK-190MS-R10					
Rack Mount Kit	RK-065MS-R10	RK-084MS-R10	RK-104MS-R10	RK-121MS-R10	RK-150MS-R10	RK-170MS-R10	RK-190MS-R10
Din Mount Kit	DK-84MS		N/A				
LCD Monitor Arm	ARM-11				ARM-31		
LCD Monitor Stand	STAND-100-RS				STAND-210-R11		

Packing List

Description	Part Number	Remark
1 x AC power cable	32000-089900-RS	Length:1800mm (EU or US, Which type of cord is shipped depends on the contry)
1 x VGA cable	32000-036200-RS	Length:1800mm
1 x 60W AC power adapter (Non M model ONLY)	63040-010060-040-RS	For DM-150GS-R20 / 170GS-R20 / 190GS-R20 series Operating Temperature : 0ºC~ +40ºC (Meet PSE)
1 x 36W AC power adapter (Non M model ONLY)	63000-FSP036RAB610-RS	For DM-65GHS-R20 / 84GHS-R20 / 104GHS-R20 / 121GXS-R20 series Operating Temperature : 0ºC~ +40ºC (Meet PSE)
1 x User manual		
1 x Power cable for terminal block	32100-041001-RS	For M model only
1 x Touch screen RS-232 Cable / USB Cable / Driver CDROM	RS-232 Cable:32005-001100-100-RS USB Cable:32001-006100-100-RS	Length: 1800 mm Length: 1500 mm
1 x Touch pen	43125-0002C0-00-RS	

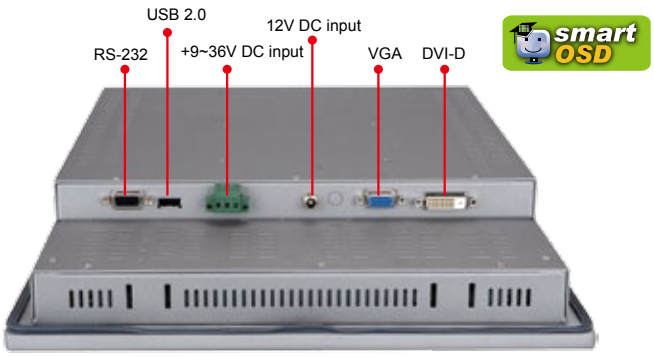
Ordering Information

Part No.		Description
6.5”	DM-65GHS/R-R20	6.5" 800cd/m² High luminance VGA LCD monitor with VGA, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, R20, RoHS
8.4”	DM-84GHS/R-R20	8.4” 450cd/m² High luminance SVGA LCD monitor, Aluminum front panel, Silver color,W/RS-232 Touch screen, R20, RoHS
	DM-84GHMS/R-R21	8.4” 450cd/m² High luminance SVGA LCD monitor, Aluminum front panel, Silver color,W/RS-232 Touch screen, 9~36V DC input, R21, RoHS
	DM-84GHS-USB/R-R20	8.4” 450cd/m² High luminance SVGA LCD monitor, Aluminum front panel, Silver color,W/USB Touch screen, R20, RoHS
	DM-84GHMS-USB/R-R21	8.4” 450cd/m² High luminance SVGA LCD monitor, Aluminum front panel, Silver color,W/USB Touch screen, 9~36V DC input, R21, RoHS
10.4”	DM-104GHS/R-R20	10.4” 400cd/m² High luminance SVGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, R20, RoHS
	DM-104GHMS/R-R21	10.4” 400cd/m² High luminance SVGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, 9~36V DC input, R21, RoHS
12.1”	DM-121GXS/R-R20	12.1" 500cd/m² XGA LCD monitor, Aluminum front panel, Silver color,W/RS-232 and USB Touch screen, R20, RoHS
	DM-121GXMS/R-R21	12.1” 500cd/m² XGA LCD monitor, Aluminum front panel, Silver color,W/RS-232 and USB Touch screen, 9~36V DC input, R21, RoHS
15”	DM-150GS/R-R30	15” 400cd/m² XGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, R30, RoHS
	DM-150GMS/R-R30	15” 400cd/m² XGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, 9 ~36V DC input, R30, RoHS
17”	DM-170GS/R-R30	17” 350cd/m² SXGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, R30, RoHS
	DM-170GMS/R-R30	17” 350cd/m² SXGA LCD monitor, Aluminum front panel, Silver color,W/RS-232 and USB Touch screen, 9~36V DC input, R30, RoHS
19”	DM-190GS/R-R30	19” 350cd/m² SXGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen, R30, RoHS
	DM-190GMS/R-R30	19” 350cd/m² SXGA LCD monitor, Aluminum front panel, Silver color, W/RS-232 and USB Touch screen,9~36V DC input, R30, RoHS

Note: The smartOSD function is only supported by revision 11 models and above

TDM-121/150GMS

12.1”/15” Wide Range Temperature TFT LCD Monitor



Specifications

Model	TDM-121GMS	TDM-150GS
LCD Size	12.1”	15”
Input Interface	Analog VGA + DVI-D	Analog VGA + DVI-D
Max. Resolution	1024 x 768	1024 x 768
Brightness (cd/m²)	500	450
Contrast Ratio	700 : 1	700 : 1
Display Color	262K	16.2M
Pixel Pitch (mm)	0.3075	0.297
Viewing Angle (H/V)	160/160	160/160
Touch Screen	Resistive Type 8-Wire	
Front Frame	Aluminum	Aluminum
Chassis	Heavy-duty	Heavy-duty
Input Voltage	9-36VDC	9-36VDC
OSD Function	Yes	Yes
Smart OSD	Yes	Yes
Mounting	Wall / Panel / Rack / Arm Stand / VESA 100mm x 100mm	
Color	Sliver	
Dimensions (W x H x D mm)	340 x 260 x 58	410 x 309 x 55.1
Operating Temperature	-30°C~70°C	
Front Panel Protection	IP 65	
Net Weight	3.3 kgs	6 kgs

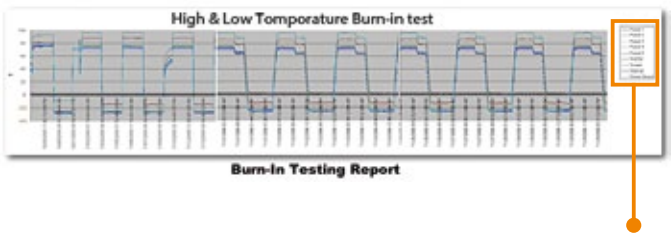
Features

1. Wide operating temperature: -30ºC~+70ºC
2. 12.1" XGA high resolution
3. Superior image
4. M models support 9~36V DC power input for mobile application
5. DVI-D and analog VGA input interface for comprehensive usage
6. IP 65 compliant

IEI Strict Design Quality Verification

Typical monitors can only be used in environments with 0°C to 50°C temperature. IEI environmental testing is performed to ensure the TDM series continues to function properly over its entire service life in a wide temperature range of -30°C to +70°C. After being tested in the -30°C to +70°C temperature range, the TDM series was found to maintain its original luminance.

To assure the TDM can function properly in harsh working environment, the internal temperature of test chamber was set in the range of -30ºC to +70ºC



Nine thermocouples record all the temperature variations during the burn-in test and the TDM monitor functions during the test.

■ 12.1" XGA Resolution: 1024 x 768

The TDM-121GMS supports higher resolutions and smaller pixel pitches (0.24mm versus 0.24mm) to deliver great computer displays.

TDM-121GMS

■ High Brightness: 450 cd/m²

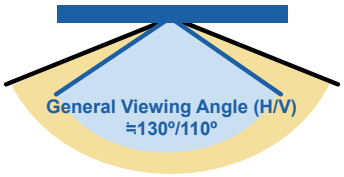
With a luminance of 450 cd/m², the TDM series offers an improvement over the 250 to 300cd/m² luminance typically available with other 12.1-inch TFT LCD modules. The high-brightness feature ensures the screen content is highly visible in all lighting conditions

Normal Brightness

High Brightness

■ Wide Viewing Angle: 160°

Typical small-size monitors only support 130°/110° (H/V) viewing angle, but IEI TDM series can support viewing angle up to 160°/160° (H/V). Viewing angle maintains screen brightness by reducing the possibility of color change when you view the monitor from the side.



TDM Series Viewing Angle (H/V)
≒160°/160°

TDM Series Viewing Angle

General Viewing Angle

Mounting Kits

	TDM-121GMS	TDM-150GMS
Panel Mount Kit	PK-170M	PK-170M
Wall Mount Kit	WK-190MS-R10	WK-190MS-R10
Stand	STAND-100-RS	STAND-200-R11
Arm	ARM-11-RS	ARM-31-RS
Rack Mount Kit	RK-121MS-R10	RK-150MS-R10

Options Power

Description	Part Number	Remark
1 x 36W AC power adapter	63000-FSP036RAB610-RS	Operating temperature : 0°C~ +40°C (Meet PSE)

Packing List

Description	Part Number	Remark
1 x AC power cable	32000-089900-RS	Length:1800mm (EU or US, Which type of cord is shipped depends on the contry)
1 x VGA cable	32000-036200-RS	Length:1800mm
1 x User manual		
1 x Power cable for terminal block	32100-041001-RS	For M model only
1 x Touch screen RS-232 Cable / USB Cable / Driver CDROM	RS-232 Cable:32005-001100-100-RS USB Cable:32001-006100-100-RS	Length:1800mm Length:1500mm
1 x Touch Pen	43125-0002C0-00-RS	

Ordering Information

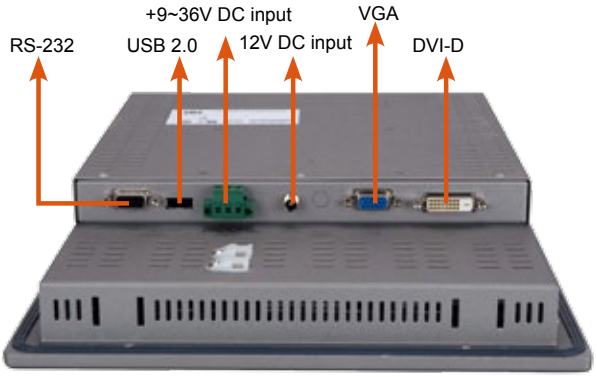
Part No.	Description
TDM-121GMS/R-R21	12.1" 500cd/m² XGA LCD monitor, Aluminum front panel, W/12.1" touch screen, 9~36V input DC input, -30°C ~ +70°C operating temperature, R21, RoHS
TDM-150GMS/R-R21	15" 450cd/m² XGA LCD Monitor, Aluminum front panel, W/15" touch screen, 9~36V input DC input, -30°C ~ +70°C operating temperature, R21, RoHS

SRM-121/150

12.1"/15" Sunlight Readable TFT LCD Monitor

Fanless

With Auto-Dimming Function



High Brightness | Auto Dimming | IP65 | -10°C~60°C Wide Temp | Anti Reflection

Specifications

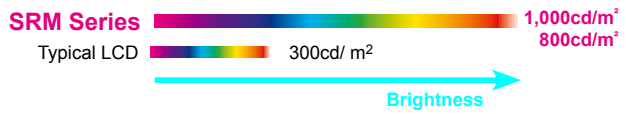
Model	SRM-121XA	SRM-150GS
LCD Size	12.1"	15"
Input Interface	Analog VGA + DVI-D	
Max Resolution	1024 x 768 (XGA)	1024 x 768 (XGA)
Brightness (cd/m²)	1300	800
Contrast Ratio	600:1	800:1
Display Color	16.7M	262k
Pixel Pitch (mm)	0.240	0.297
Viewing Angle (H/V)	160°/140°	160°/140°
Touch Screen	Resistive Type 5-Wire	
Front Frame	Aluminum	
Chassis	Heavy-duty	
Input Voltage	9-36VDC	
OSD function	Yes	
Smart-OSD	Yes	
Mounting	Wall / Panel / Rack / Arm / Stand / VESA 100mm x 100mm	
	Panel	
Color	Sliver	
Dimensions (W x H x D mm)	340 x 260 x 58	410 x 309 x 55.1
Operating Temperature	-10°C ~ +60°C	
Front Panel Protection	IP 65	
	N/A	
Net Weight	3.3 kgs	6 kgs

Features

1. 800 and 1300 nits super high brightness
2. Superior fanless design
3. 12.1" anti-reflection technology reduces light reflection and high transmission rate to prevent light loss or distortion
4. Adjustable auto-dimming function
5. Wide operating temperature:-10ºC~+60ºC
6. OSD lock secures your settings
7. IEI patent software OSD support

■ Super High Brightness

Typical high brightness monitors usually have more than six CCFLs, but IEI SRM monitors have super high brightness with only four CCFLs. IEI SRM panels are still readable in bright sunlight with fewer backlights and thereby don't power consumption or produce extra heat.



■ Wide Temperature Range

Typical high-brightness monitors usually have more than six CCFLs, but IEI SRM monitors use only four CCFLs to provide super high brightness which makes the SRM series to be still readable in bright sunlight with low power consumption.

Conventional Operation: 0ºC~50ºC

■ Superior Fanless Design and Low Power Consumption

SRM models are fanless and therefore use less power and are more silent than conventional high brightness monitors that use several high-speed cooling fans. SRM models use between 25W and 30W of power compared to the 40W to 50W used by conventional high-brightness monitors.

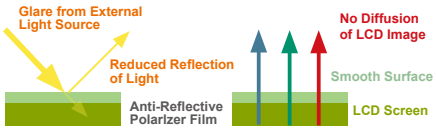
Innovative Auto-Dimming Function

IEI SRM series with auto-dimming functioin can adjust brightness according to ambient light so that users can do their job properly under different lamp house averages, and outdoor environments. This function not only prevents unnecessary brightness that strains eyes, it also saves energy. The SRM series auto-dimming default settings can be easily customized with the OSD menu to suit any environment.

Anti-Reflection Technology

Outdoor applications in daylight or other bright environments require technology that can suppress surface reflection. The SRM has a special AR (anti-reflection) surface treatment to prevent reflection, ensuring excellent visibility in daylight conditions.

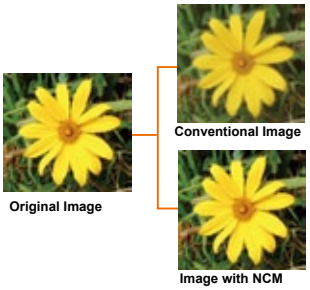
How does the Anti-Reflection Surface work?



- Reduces intensity of reflected light
- Higher contrast
- Colors are more vibrant
- No image distortion

Natural Color Matrix (NCM) Technology

POS terminals and kiosks often display advertisements and colorful images, the colors of which must remain vivid and faithful to the original. The IEI SRM monitor with NCM optimization technology prevents this difference by separating color data and luminance components while controlling individual display colors for optimized performance.



12.1" XGA High Resolution

The SRM-121XA series supports higher resolutions and smaller pixel pitches (0.24mm versus 0.24mm) to deliver great displays. Higher resolution on a high-density display allows more viewable content so that the user does not have to scroll as much to view the entire screen.

12.1" SVGA Screen Capture **12.1" XGA Screen Capture**

XGA Higher Resolution

- Presents vivid and fine display quality
- Increases viewable content

Mounting Kits

	SRM-150GS
Panel Mount Kit	PK-170M
Wall Mount Kit	WK-190MS-R10
Rack Mount Kit	RK-150MS-R10
LCD Monitor Arm	ARM-31
LCD Monitor Stand	STAND-210-R11

Packing List

Description	Part Number	Remark
1 x AC power cable	32000-089900-RS	Length: 1800mm (EU or US, Which type of cord is shipped depends on the contry)
1 x VGA cable	32000-036200-RS	Length:1800mm
1 x DVI cable	32000-086600-RS	Length:1800mm
1 x 36W AC power adapter	63000-FSP036RAB610-RS	Operating Temperature : 0ºC~ +40ºC (for 12V DC Input Model Only) (Meet PSE)
1 x User manual		
1 x Power cable for terminal block	32100-041001-RS	For M model only
1 x Touch screen RS-232 Cable / USB cable / Driver CDROM	RS-232 Cable:32005-001100-100-RS USB Cable:32001-006100-100-RS	Length:1800mm Length:1500mm
1 x Touch pen	43125-0002C0-00-RS	

Ordering Information

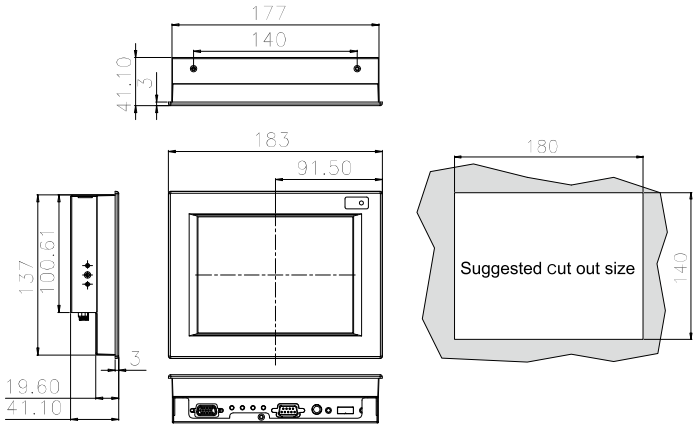
• 12.1" XGA SRM Series

Model	Description
SRM-121XA/R-R40	12.1" 1300 cd/m² sun readable XGA LCD monitor, Aluminum Front Panel,Silver Color,w/VGA and DVI-D input, w/12.1" RS-232 and USB Touch Screen, R40, RoHS
SRM-121XMA/R-R40	12.1" 1300 cd/m² sun readable XGA LCD monitor, Aluminum Front Panel,Silver Color,w/VGA and DVI-D input,w/9~36V DC input, w/12.1" RS-232 and USB Touch Screen, R40, RoHS

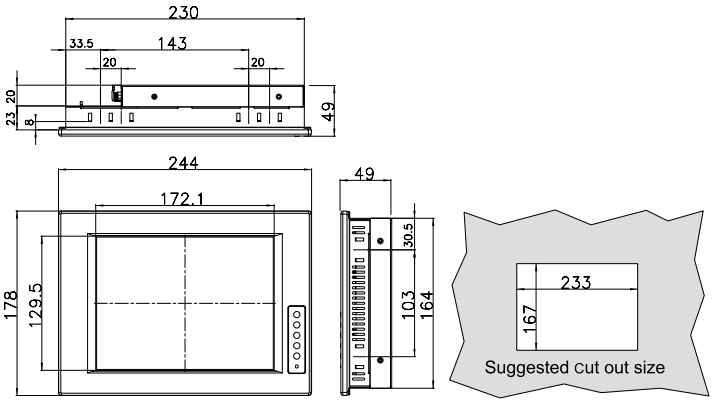
• 15" XGA SRM Series

Model	Description
SRM-150GS/R-R30	15" 800 cd/m² Sun Readable XGA LCD Monitor, Aluminum Front Panel, Silver Color, w/VGA and DVI-D input, w/15" RS-232 and USB Touch Screen, R30, RoHS
SRM-150GMS/R-R30	15" 800 cd/m² Sun Readable XGA LCD Monitor, Aluminum Front Panel, Silver Color, w/VGA and DVI-D input, w/9~36V DC input , w/15" RS-232 and USB Touch Screen, R30, RoHS

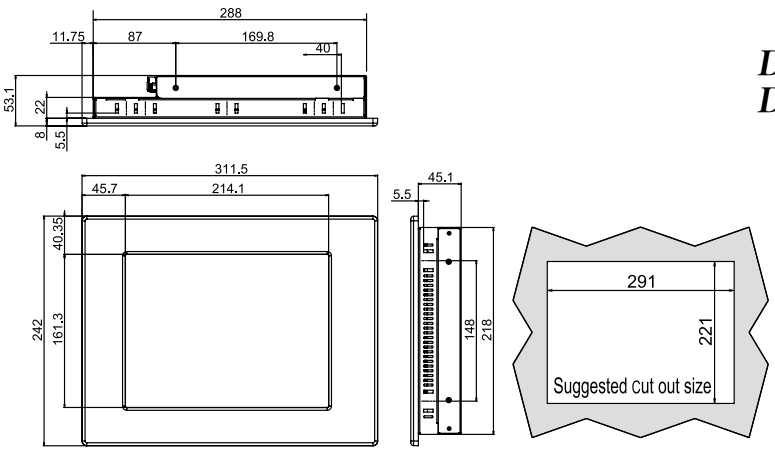
DM-65GHS Dimensions (Unit: mm)



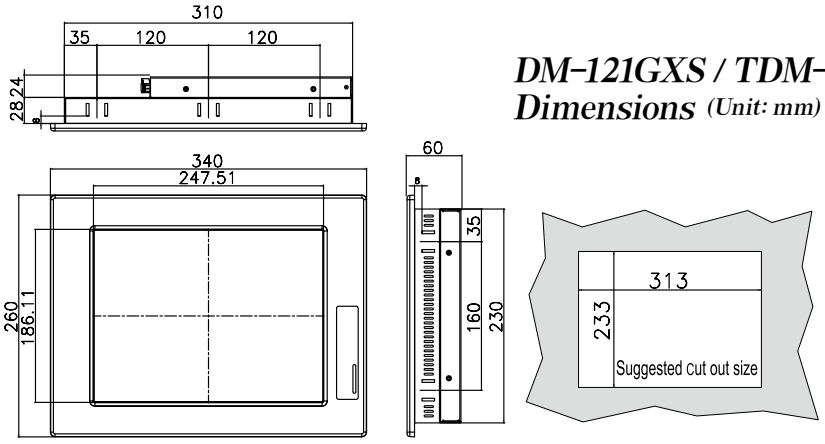
DM-84GHS Dimensions (Unit: mm)



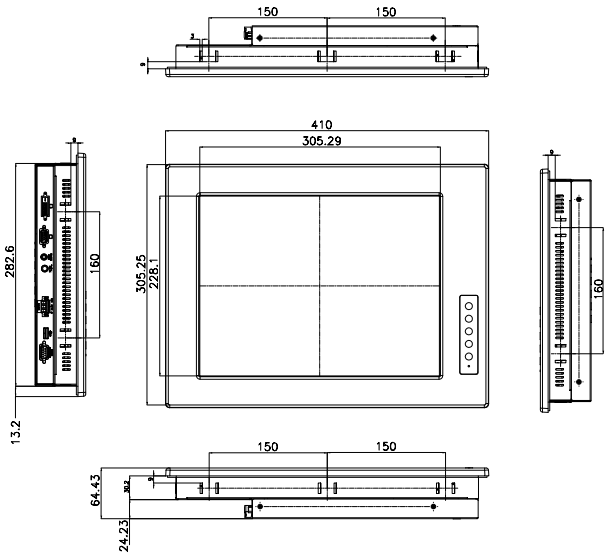
DM-104GHS Dimensions (Unit: mm)

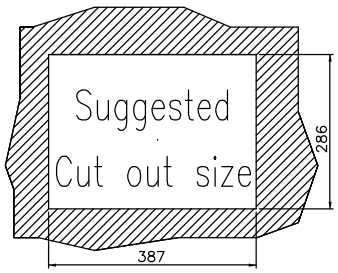


DM-121GXS / TDM-121GMS / SRM-121XA Dimensions (Unit: mm)

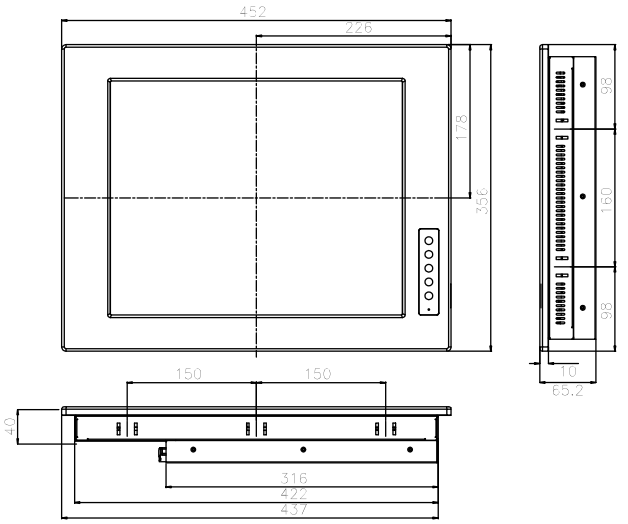


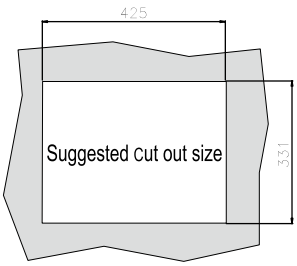
DM-150GS / TDM-150GMS / SRM-150GS Dimensions (Unit: mm)



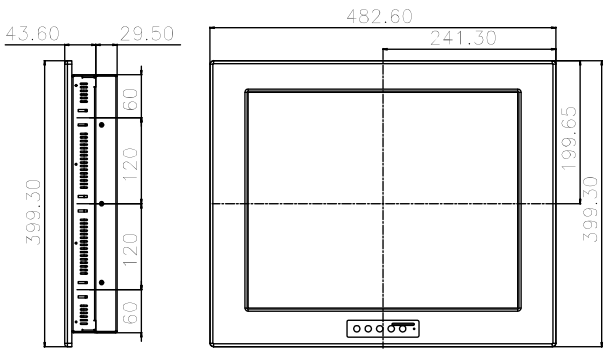


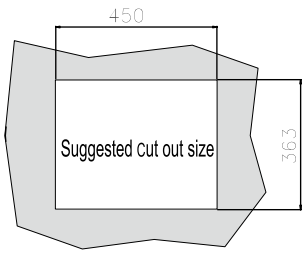
DM-170G Dimensions (Unit: mm)

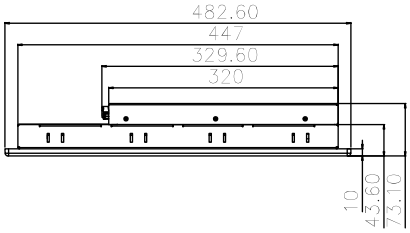




DM-190G Dimensions (Unit: mm)







LCD Kit Series

6.5” ~ 17” Open Frame LCD Monitor with OSD Function

Sunlight Readable Available

Features

1. 6.5"~17" modular architecture for efficient integration
2. Over 300cd/m² high brightness and 50000hrs MTFB long lifetime panel
3. Analog VGA or digital DVI interfaces support most of general systems
4. Sunlight readable option
5. Support software OSD for remote control applictions

smart OSD

Specifications

Model	LCD-KIT65GH	LCD-KIT84GH	LCD-KIT104GH	LCD-KIT121GX	LCD-KIT150G	LCD-KIT170G
LCD Size	6.5”	8.4”	10.4”	12.1”	15”	17”
Input Interface	Analog VGA			Analog VGA + DVI-D		
Max. Resolution	640 x 480	800 x 600	800 x 600	1024 x 768	1024 x 768	1280 x 1024
Brightness (cd/m²)	800	450	400	500	400	350
Contrast Ratio	600 : 1	600 : 1	700 : 1	700 : 1	700 : 1	800 : 1
Display Color	262K	262K	262K	262K	16.2M	16.7M
Pixel Pitch (mm)	0.207	0.213	0.264	0.3075	0.297	0.264
Viewing Angle (H/V)	160/140	160/140	160/140	160/160	160/140	170/160
Chassis	Heavy-duty					
Input Voltage	12VDC	12VDC or 9-36VDC				
OSD Function	Yes					
Smart-OSD	Yes					
Mounting	Panel					
Dimensions (W x H x D mm)	203 x 121 x 34	234 x 147 x 35.3	242.2 x 209 x 33.6	294 x 240.7 x 42	364.1 x 262.5 x 41.9	390.4 x 300 x 46.9
Operating Temperature	-10°C~50°C					
Net Weight	1 kg	1.8 kgs	3 kgs	3.8 kgs	6 kgs	8.6 kgs
Power Adapter	36W, 63000-FSP036RAB610-RS (Meet PSE)				60W, 63040-010060-040-RS (Meet PSE)	

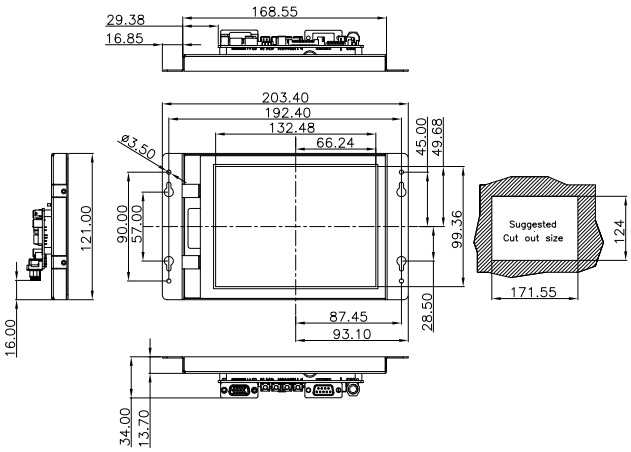
Note: The smartOSD function is supported by revision 11 models and above

Ordering Information

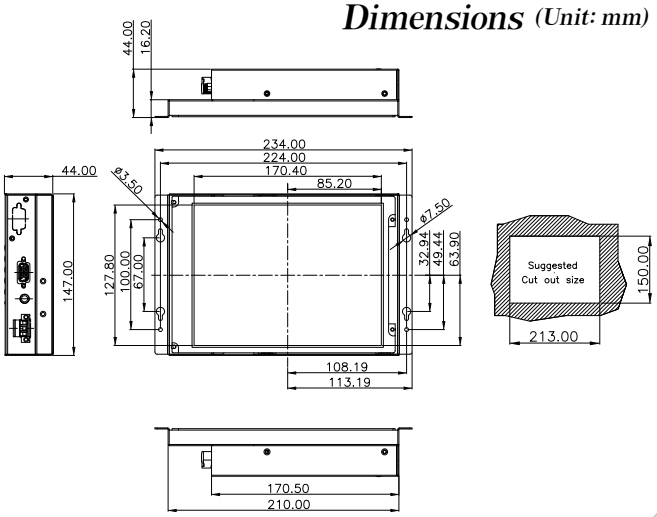
Part No.		Description
6.5”	LCD-KIT65GH-R20	6.5" 800cd/m² High luminance VGA TFT LCD kit, VGA input, R20, RoHS
8.4”	LCD-KIT84GH-R20	8.4” 450cd/m² High luminance SVGA TFT LCD kit, VGA input, R20, RoHS
	LCD-KIT84GHM-R21	8.4” 450cd/m² High luminance SVGA TFT LCD kit, VGA input, 9~36V DC input, R21, RoHS
10.4”	LCD-KIT104GH-R20	10.4” 400cd/m² High luminance SVGA TFT LCD kit, VGA input, R20, RoHS
	LCD-KIT104GHM-R21	10.4” 400cd/m² High luminance SVGA TFT LCD kit, VGA input, 9~36V DC input, R21, RoHS
12.1”	LCD-KIT121GX-R20	12.1" 500cd/m² XGA TFT LCD kit, VGA and DVI-D input, R20, RoHS
	LCD-KIT121GXM-R21	12.1” 500cd/m² XGA TFT LCD kit, VGA and DVI-D input, 9~36V DC input, R21, RoHS
15”	LCD-KIT150G-R30	15” 400cd/m² XGA TFT LCD kit, VGA and DVI-D input, R30, RoHS
	LCD-KIT150GM-R30	15” 400cd/m² XGA TFT LCD kit, VGA and DVI-D input, 9~36V DC input, R30, RoHS
17”	LCD-KIT170GS-R30	17” 350cd/m² SXGA TFT LCD kit, VGA and DVI-D input, R30, RoHS
	LCD-KIT170GM-R30	17” 350cd/m² SXGA TFT LCD kit, VGA and DVI-D input, 9~36V DC input, R30, RoHS

Note: The smartOSD function is supported by revision 11 models and above

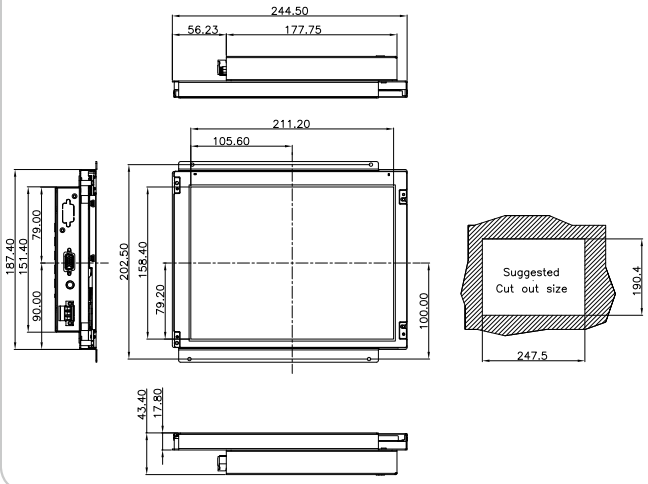
LCD-KIT65GH Dimensions (Unit: mm)



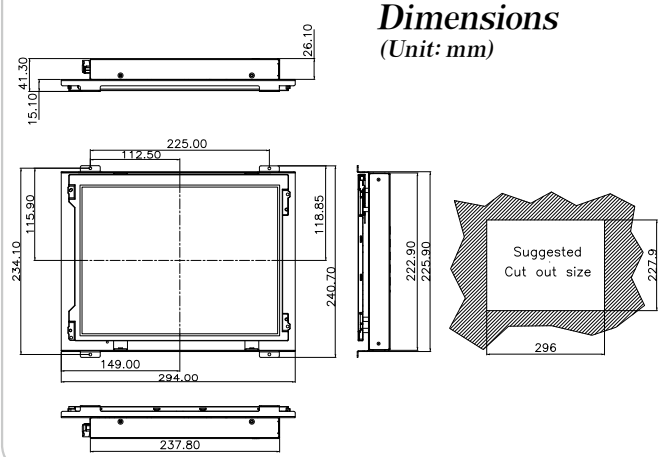
LCD-KIT84GH Dimensions (Unit: mm)



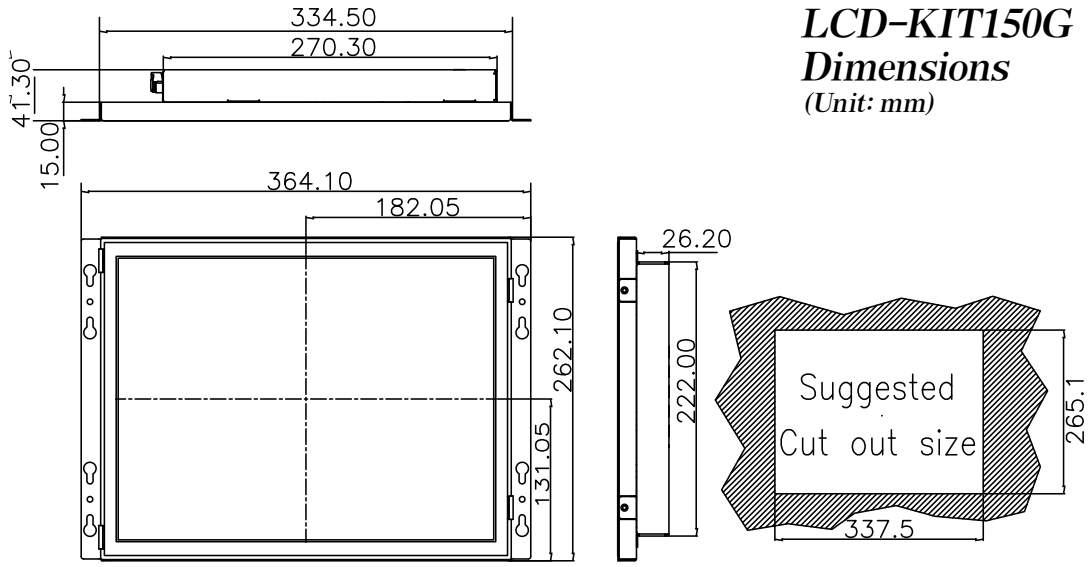
LCD-KIT104GH Dimensions (Unit: mm)



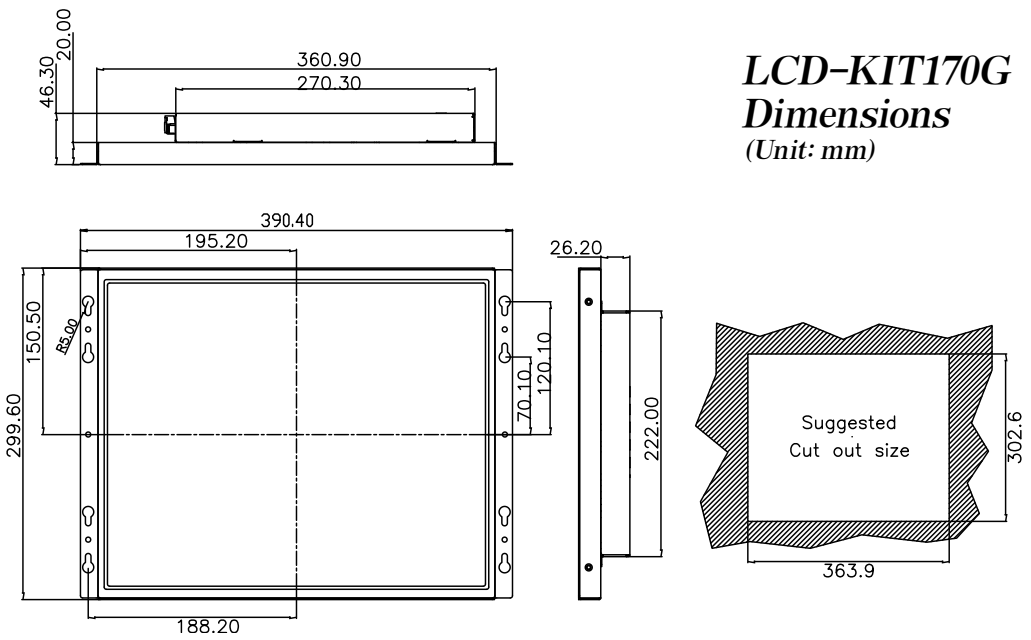
LCD-KIT121G Dimensions (Unit: mm)



LCD-KIT150G Dimensions
(Unit: mm)

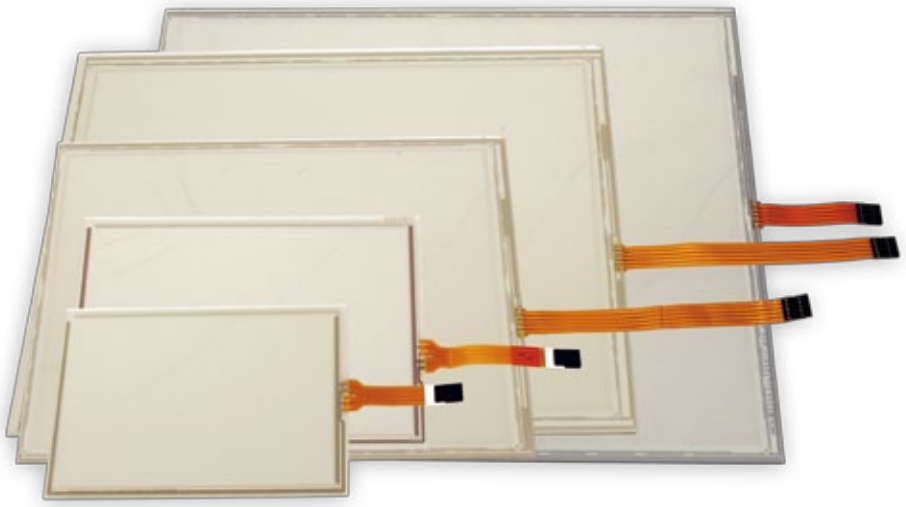


LCD-KIT170G Dimensions
(Unit: mm)



Touch Screen Series

6.5” ~ 17” Resistive LCD Touch Screen Kit



Features

1. Optical clarity: Total transmission 78 % or more
2. Input through a special stylus or finger 100g or less
3. High reliability and durability in the field

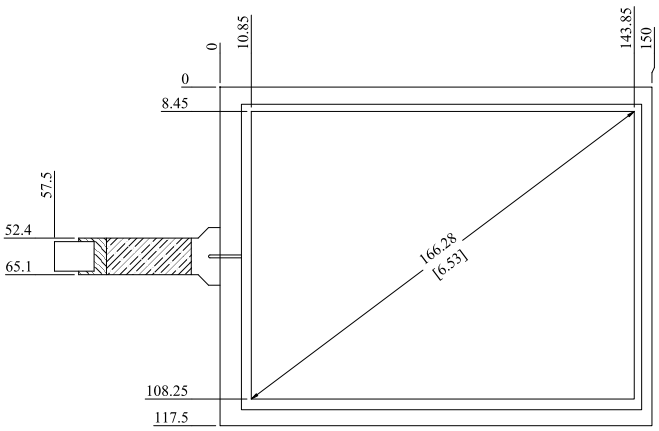
Ordering Information

Touch Screen Kit		IEI Products	Sensor
RS-232	USB		
T-R065G	T-R065G-USB	DM-65GS, LCD-KIT65G	4-Wire
T-R084G	T-R084G-USB	DM-84GS, LCD-KIT84G	4-Wire
T-R104G	T-R104G-USB	DM-104GS, LCD-KIT104G	5-Wire
T-R121G	T-R121G-USB	DM-121GS, LCD-KIT121G	5-Wire
T-R150G	T-R150G-USB	DM-150GS, LCD-KIT150G	5-Wire
T-R170G	T-R170G-USB	DM-170GS, LCD-KIT170G	5-Wire

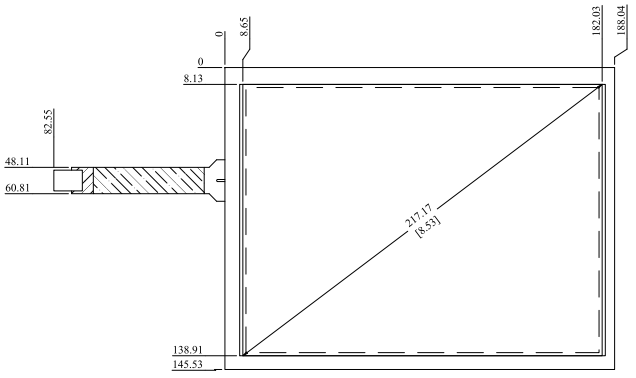
Packing List

- 1 x Touch screen
- 1 x Controller board
- 1 x Touch cable
- 1 x Touch driver on CD-ROM
- 1 x RS-232 / USB cable

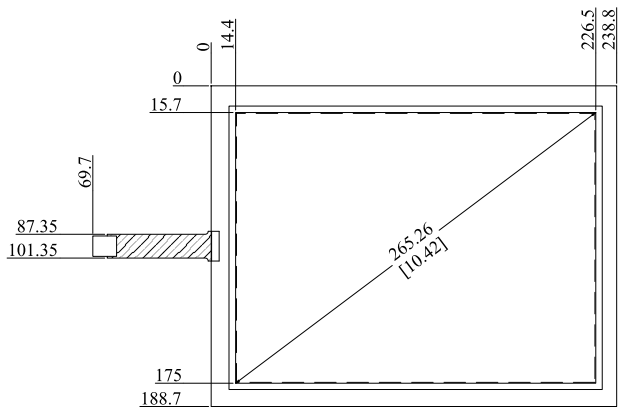
T-R065G Dimensions (Unit: mm)



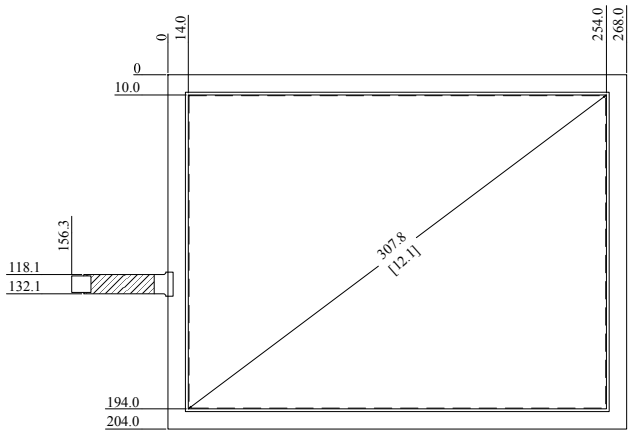
T-R084G Dimensions (Unit: mm)



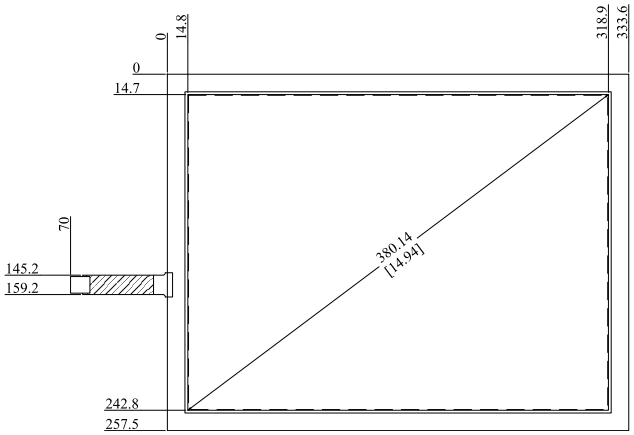
T-R104G
Dimensions (Unit: mm)



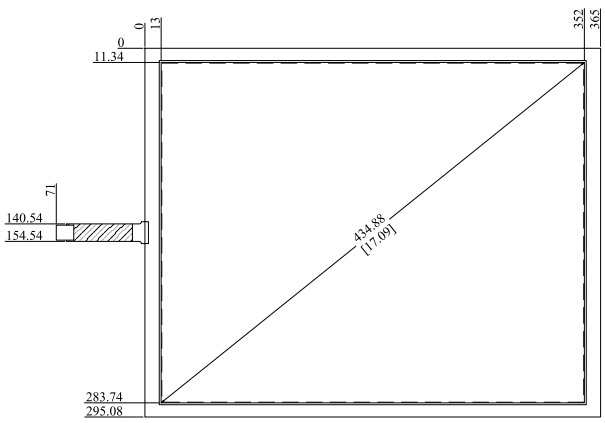
T-R121G
Dimensions (Unit: mm)

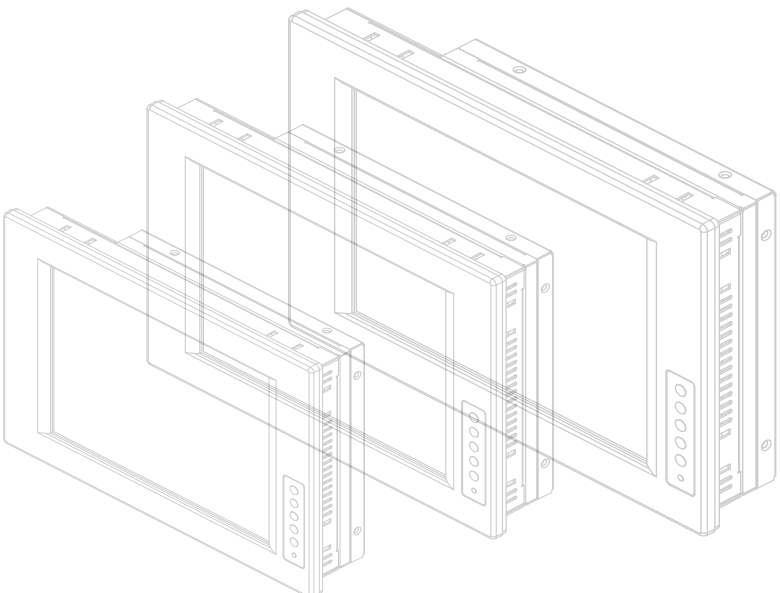


T-R150G
Dimensions (Unit: mm)



T-R170G
Dimensions (Unit: mm)





Robot-TP-65M 6.5” Teaching Pendant

■ 6.5” control terminal, easy to use

- 800 nits high luminance control terminal with touchscreen to present its graphical user interface.
- 6-meter long all-in-one cable allows easy installation
- Ergonomic body design, easy to operate

■ Durable construction

- Completely dust and splash proof (IP 64) design
- 1 meter drop resistance
- 0°C~50°C extended operating temperature

■ Programming with 33-key membrane keypad and safety functions

(Emergency stop, 3-position dead-man switch, mode select switch with key)

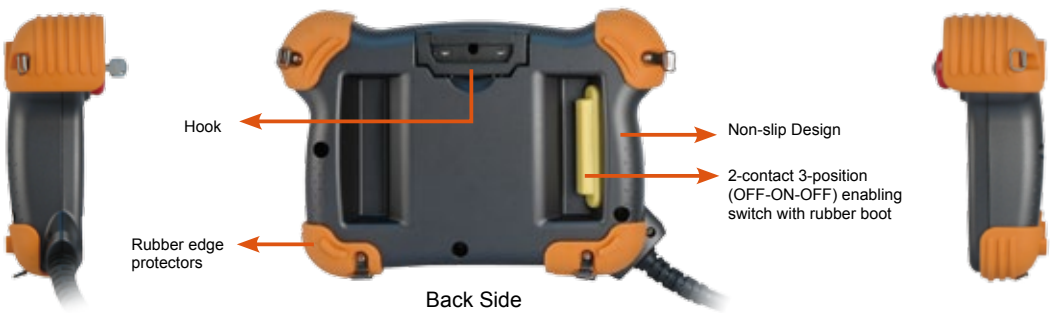
Robot Controller

Mobile Display

■ Optimized keyboard layouts

Taking advantage of both real buttons the interface is straightforward for all users.

■ Equally suitable for right- or left-handed operation



Back Side

■ Durable construction

Fully IP 64 waterproof protection: prevent damage from oil and gas.

Pass the 1 m drop test.

■ Emergency Buttons

(1) 3-position (OFF-ON-OFF) enabling switch

- Ergonomically-designed OFF-ON-OFF operation.
- Easy recognition of position 1 to 2 transition is made possible by a snap action switch.
- Suficient difference in operating force is provided for shifting from position 2 to 3.

(2) Emergency stop

- Emergency stop switch can be reset either by pulling or turning.

Pull to reset

Turn to reset

■ Allows hours of fatigue-free working

- Adopts strap design to reduce user fatigue.
- Allows the operator to release the hands to do other jobs.
- Greatly enhance the efficiency of the operator.

Handheld front view

Handheld side view

Stably placed on the table

■ Friendly HMI operator interface (Optional)

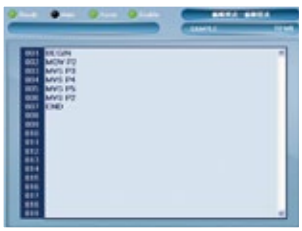
Intuitive function menu

Convinient to switch between sfunction menus

Manual control mode

Include three motion modes and two coordinate modes for users to save information without hassles

Programming interface



Simple programming interface allowing users to edit robot motion paths

Automatic execution

Run the programmed commands automatically. The cyclic operation mode is also supported.

System alarm

Record alarm logs to understand the robot operation status

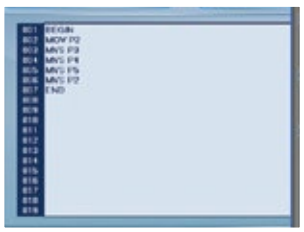
External I/O status

Visualize the operation status of all 64 inputs and 64 outputs

Virtual keyboard

Virtual keyboard eases data input

Online help

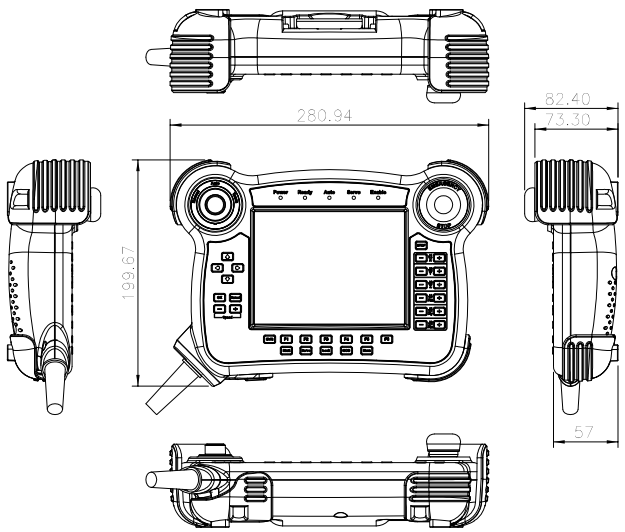


Online FAQ and help center

Specifications

Model		Robot-TP-65M
Display	LCD Size	6.5”
	Max Resolution	640 (W) x 480 (H)
	Brightness (cd/m²)	800
	Contrast Ratio	600:1
	LCD Color	262k
	Pixel Pitch (mm) (HxV)	0.207 x 0.207
	Viewing Angle (V/H)	140°/160°
	MTBF	50,000 hrs (LED backlight)
LED Indicator		5 LEDs (Power , Ready, Auto, Servo, Enable)
Touch Controller		Penmount DMC6000
IO Interface	Video Input	VGA
	Touch Interface	RS-232
	Power Source	12VDC Input
	Keypad Control Interface	PS/2
OSD Control		Software OSD
Operating	Switches & keys	Switches: Emergency stop, 3-position dead-man switch, Mode select switch with key Keys: Moving direction, OK, Cancel, Speed (-/+), Shift, Function (F1~F6), Start, Servo, Lock, MOD , Menu, Stop, Cursor
	Touch Panel	4-wire resistive type touch panel
Emergency Stop Button		For B contacts, 4 circuit outputs (forced disjunction type)
Deadman switch (Enable switch)		3-position type (OFF-ON-OFF), 2 circuit outputs
Mode Selection Switch		3-positon (AUTO, MANUAL, TEACHCHECK), keylock switch. (switchable only with the key inserted)
Operating Temperature		0°C~50°C
Storage Temperature		-25°C~65°C
Humidity		<90% RH (no condensation allowed)
Vibration		Meet MIL-STD-810F
Drop Survival		1m (38 inch) 4 corners, 2 sides
Physical	Housing	ABS+PC
	Dimensions (LxWxH) (mm)	281 x 200 x 83
	Weight (N/W)	3.32kgs
	IP Rating	6-side IP 64 waterproof
	Color	Pantone 569C
Cable Length		8 meter
Power Consumption		6.6W

Ordering Information

Part NO	Description
Robot-TP-65M/K-ML-R10	6.5” 800cd/m² VGA TFT LCD teach pendant with touch screen, key switch, 3-position dead-man switch, emergency button, 37-pin military connector, R10
Robot-TP-65M/K-R10	6.5” 800cd/m² VGA TFT LCD teach pendant with touch screen, key switch, 3-position dead-man switch, emergency button, R10
Robot-TP-84M/K-ML-R10 Coming Soon	8.4” 250cd/m² SVGA TFT LCD teach pendant with touch screen, key switch, 3-position dead-man switch, emergency button, 37-pin military connector, R10
Robot-TP-84M/K-R10 Coming Soon	8.4” 250cd/m² SVGA TFT LCD teach pendant with touch screen, key switch, 3-position dead-man switch, emergency button, R10
Robot-TP-84M-R10 Coming Soon	8.4” 250cd/m² SVGA TFT LCD teach pendant with touch screen, emergency button, R10

Dimensions (Unit: mm)